WHAT IS CLAIMED IS:

1. A method of detecting a position of a printed-wiring board as held by a board supporting device in a printed-wiring-board working system arranged to effect a working operation on a front surface of said printed-wiring board, said method comprising the steps of:

operating at least one image-taking device to take an image of each of at least one indicium provided on a back surface of said printed-wiring board as held by said board supporting device; and

detecting the position of said printed-wiring board on the basis of a position of said image of each of said at least one indicium in an imaging area of the corresponding one of said at least one image-taking device.

- 2. A method according to claim 1, wherein said at least one indicium consists of at least one fiducial mark positioned on said back surface of said printed-wiring board, in a predetermined positional relationship with a printed wiring pattern formed on said front surface of said board.
- 3. A method according to claim 1, wherein said at least one indicium consists of at least one predetermined portion of a printed wiring pattern which is formed on said back surface of said printed wiring board, in a predetermined positional relationship with a printed wiring pattern formed on

said front surface of said board.

- 4. A method according to claim 1, wherein said printed-wiring board has a plurality of indicia.
- 5. A method according to claim 4, wherein said at least one image-taking device consists of a plurality of image-taking devices, the method further comprising locating said plurality of image-taking devices at respective positions at which the images of said plurality of indicia can be respectively taken by said plurality of image-taking devices.
- 6. A method according to claim 4, wherein said image-taking devices are located at said respective positions before said printed-wiring board is held by said board supporting device.
- 7. A method according to claim 6, wherein said plurality of image taking devices are manually located at said respective positions.
- 8. A method of effecting a working operation on a front surface of a printed wiring board in a printed wiring board working system which comprises a board supporting device operable to hold said printed wiring board, a working head operable to effect said working operation on said front surface of said printed wiring board, and a

relative movement device operable to move said printed wiring board and said working head relative to each other in a plane parallel to said front surface, said method being characterized by comprising the steps of:

operating at least one image-taking device to take an image of each of at least one indicium provided on a back surface of said printed-wiring board as held by said board supporting device;

detecting a positioning error of said printed-wiring board as held by said board supporting device, on the basis of a position of said image of said each indicium in an imaging area of the corresponding one of said at least one image-taking device; and

compensating a relative movement between said board supporting device and said working head by said relative-movement device, on the basis of said positioning error detected.

- 9. A printed-wiring-board working system for effecting a working operation on a front surface of a printed-wiring board, characterized by comprising:
- a board supporting device operable to hold said printed-wiring board:
- a working head operable to effect said working operation on said front surface of said printed wiring board;
- a relative-movement device operable to move said printed-wiring board and said working head relative to each other in a plane parallel to said front surface;

at least one image-taking device operable to take an image of each of at least one indicium provided on a back surface of said printed-wiring board as held by said board supporting device; and

a control device operable to control said working head, said relative-movement device and said at least one image-taking device, said control device detecting a positioning error of said printed-wiring board as held by said board supporting device, on the basis of a position of said image of said each indicium in an imaging area of the corresponding one of said at least one image-taking device.

and wherein said control device is operable compensate a relative movement between said board supporting device and said working head by said relative movement device, so as to reduce said positioning error detected,

- 10. A printed-wiring-board working system according to claim 9, further comprising an imaging-device holding device which is disposed so as to be opposed to said back surface of said printed-wiring board and which holds said at least one image-taking device.
- 11. A printed-wiring-board working system according to claim 10, wherein said imaging-device holding device includes a mounting device arranged to hold said at least one image-taking device such that a position of each of said at least one image-taking device is adjustable.

- 12. A printed-wiring-board working system according to claim 11, wherein said imaging-device holding device includes a support table having a flat supporting surface, and said mounting device includes a mounting member to which each of said at least one image-taking device is fixed, one of said support table and said mounting member including a magnet portion, while the other of said support table and said mounting member including a ferromagnetic portion formed of a ferromagnetic material.
- 13. A printed-wiring-board working system according to claim 11, wherein said imaging-device holding device has a flat supporting surface and a first and a second group of T-slots, said first group of T-slots consisting of a plurality of parallel T-slots, and said second group of T-slots consisting of a plurality of parallel T-slots perpendicular to the T-slots of said first group, and wherein said mounting device includes a plurality of T-blocks slidably received in said T-slots, and fastening members which cooperate with said T-blocks to hold said at least one image-taking device.
- 14. A printed-wiring-board working system according to claim 9, further comprising an imaging-device holding device which is movable in two mutually perpendicular directions and which holds said at least one image-taking device.

- 15. A printed-wiring-board working system according to claim 14, wherein said imaging-device holding device includes two movable members, and an X-axis drive device and a Y-axis drive device which include respective drive sources operable to move said two movable members in an X-axis direction and a Y-axis direction, respectively, and a controller for controlling said drive sources.
- 16. A printed-wiring-board working system according to claim 9, further comprising a moving device operable to move said imaging-device holding device toward and away from said back surface of said printed-wiring board held by said board supporting device.
- 17. A printed-wiring-board working system according to claim 9, wherein each of said at least one image-taking device includes a contact portion for contact with said back surface of said printed-wiring board, to support said printed-wiring board on said back surface.
- 18. A printed-wiring-board working system according to claim 17, wherein said contact portion has a contact surface shaped to enclose one of said at least one indicium such that said contact surface is located outwardly of said one indicium.
 - 19. A printed-wiring-board working system

according to claim 9, wherein said at least one image-taking device consists of a plurality of image-taking devices.

20. A printed-wiring-board working system according to claim 9, wherein said working head is an electric-component mounting head operable to mount an electric component at a predetermined position on said front surface of said printed-wiring board.